

FIGURE

SOIL SAMPLE ANALYTICAL RESULTS

Bergey's Retreading 1419 Route 309

Sellersville, PA

Ridge Run PFAS HSCA Site Bucks County, Pennsylvania

Soil Sample ID	Depth (ft)	Date	PFBS (ng/g)	PFOS (ng/g)	PFOA (ng/g)	Moisture (%)
	CAS	SN	375-73-5	1763-23-1	355-67-1	NA
Soil SHS Screening Value	ue (residential)	NS	NS	NS	NS
1419BP-SB-1 (2-2.5)	2-2.5	04/02/19	ND	7.2	0.42 J	16.0
1419BP-SB-1 (5.5-6)	5.5-6	04/02/19	ND	1.5	ND	9.8
1419BP-SB-2 (2-2.5)	2-2.5	04/02/19	ND	0.40 J	ND	9.1
1419BP-SB-2 (3.5-4)	3.5-4	04/02/19	ND	2.3	ND	15.7
1419BP-SB-3 (2.5-3)	2.5-3	04/02/19	ND	2.4	ND	15.0
1419BP-SB-4 (2-2.5)	2-2.5	04/02/19	ND	ND	ND	15.0
1419BP-SB-4 (3.5-4)	3.5-4	04/02/19	ND	ND	ND	12.5
1419BP-SB-5 (2-2.5)	2-2.5	04/02/19	ND	ND	ND	9.5
1419BP-SB-5 (3.5-4)	3.5-4	04/02/19	ND	0.63 J	ND	16.2
1419BP-SB-6 (2.5-3)	2.5-3	04/02/19	ND	5.7	ND	9.0
1419BP-SB-7 (2-2.5)	2-2.5	04/02/19	ND	ND	ND	19.2
1419BP-SB-7 (7.5-8)	7.5-8	04/02/19	ND	ND	ND	12.8
1419BP-SB-8 (2-2.5)	2-2.5	04/02/19	ND	1.1	ND	13.7
1419BP-SB-8 (5.5-6)	5.5-6	04/02/19	ND	0.52 J	0.27 J	17.8
1419BP-SB-9 (4-4.5)	4-4.5	04/02/19	ND	2.0	ND	15.8
1419BP-SB-9 (6.5-7)	6.5-7	04/02/19	ND	ND	ND	8.6
1419BP-SB-10 (2.5-3)	2.5-3	04/02/19	0.48 J	8.0	2.1	14.5
1419BP-SB-11 (2.5-3)	2.5-3	04/02/19	ND	50	ND	16.2
1419BP-SB-12 (2-2.5)	2-2.5	04/02/19	ND	ND	ND	10.9
1419BP-SB-12 (4.5-5)	4.5-5	04/02/19	ND	ND	ND	15.6
1419BP-SB-13 (1-1.5)	1-1.5	04/02/19	ND	5.0	ND	6.9

ND = less than laboratory method detection limit

ng/g = nanograms per gram

PFBS = Perfluorobutanesulfonate

PFOS = Perfluoro-octanesulfonate

PFOA = Perfluorooctanoic Acid

J = estimated value greater than or equal to the method detection limit (MDL or DL) and less than the Limit of Quantitation (LOQ or RL)



SURFACE WATER SAMPLE ANALYTICAL RESULTS

Bergey's Retreading 1419 Route 309 Sellersville, PA

Ridge Run PFAS HSCA Site Bucks County, Pennsylvania

Surface Water Sample ID	Date	PFOS (ng/L)	PFBS (ng/L)	PFOA (ng/L)
CAS Numbe	r	1763-23-1	375-73-5	355-67-1
USEPA Drinking Water HAL		70	NL	70
1419BP-SW-1	04/02/19	420	22	46
1419BP-SW-2	04/02/19	390	69	80
1419BP-SW-3	04/02/19	360	34	64
1419BP-SW-4	04/02/19	330	25	51
1419BP-SW-5	04/02/19	27	3.6	5.8
1419BP-SW-6	04/02/19	580	67	80

USEPA Drinking Water HAL = United States Environmental Protection Agency Drinking Water Health Advisory Level

NL = No Advisory Level

ND = less than laboratory method detection limit

ng/L = nanograms per liter

PFBS = Perfluorobutanesulfonate

PFOS = Perfluoro-octanesulfonate

PFOA = Perfluorooctanoic Acid

Bold = Value exceeds the EPA Drinking Water HAL

J = estimated value greater than or equal to the method detection limit (MDL or DL) and less than the Limit of Quantitation (LOQ or RL)





May 2, 2019

David W. Budnick, CFO Bergey's Realty Co. 462 Harleysville Pike Souderton, PA 18964

Re:

Bergey's Retread Technologies

1419 Bethlehem Pike Sellersville, PA 18960

April 2019 Sample Results Ridge Run PFAS HSCA Site

Dear Mr. Budnick:

On April 2, 2019, the Department of Environmental Protection (DEP)'s contractor EnviroTrac performed soil sampling and surface water sampling at 1419 Bethlehem Pike in West Rockhill Township. Enclosed please find a copy of the analytical results of that sampling.

Soil borings were advanced at thirteen locations (see enclosed figure) to refusal. Soil samples for Perfluorooctanesulfonate (PFOS), Perfluorooctanoic acid (PFOA), and Perfluorobutanesulfonate (PFBS) were collected from each boring. A table summarizing the soil sample results is enclosed.

Surface water was sampled at six locations (see enclosed figure). Water samples for PFOS, PFOA, and PFBS were collected from each location. A table summarizing the water sample results is enclosed.

Based on these results, DEP seeks to collect additional soil, surface water, and sediment samples from your property.

Please feel free to contact me by e-mail at cowade@pa.gov or by telephone at 484.250.5722 with any questions.

Sincerely,

Colin R. Wade

Environmental Protection Specialist Environmental Cleanup and Brownfields

Make

Enclosures

cc:

Mr. Joel Bolsetin, Esq. (via email w/ enclosures)

Bucks County Health Department

West Rockhill Township (w/ enclosures)

Mr. Cherry

Mr. Glass, Esq.

File









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ANALYSIS REPORT

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 EnviroTrac LTD 3070 Bristol Pike Building 1, Suite 221 Bensalem PA 19020

Report Date: April 17, 2019 17:17

Project: GTAC Ridge Run

Account #: 12378 Group Number: 2037206 SDG: RRP44

PO Number: 09.DP0017.00 State of Sample Origin: PA

Electronic Copy To EnviroTrac Ltd Attn: Paul Yesconis
Electronic Copy To EnviroTrac LTD Attn: Luke Ingle
Electronic Copy To EnviroTrac LTD Attn: Timothy Norris
Electronic Copy To EnviroTrac Ltd. Attn: Adam Pelak

Respectfully Submitted,

Amek Carter Specialist

(717) 556-7252

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/. Historical copies may be requested through your project manager.



Lancaster Laboratories Environmental







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SAMPLE INFORMATION

	nple Collection Date/Time	ELLE#
1419BP-SB-1 (2-2.5) Grab Soil 04/0	02/2019 09:15 1	026031
` ,	02/2019 09:20 1	026032
,	02/2019 09:30 1	026033
1419BP-SB-2 (3.5-4) Grab Soil 04/0	02/2019 09:35 1	026034
1419BP-SB-3 (2.5-3) Grab Soil 04/0	02/2019 09:50 1	026035
1419BP-SB-4 (2-2.5) Grab Soil 04/0	02/2019 10:05 1	026036
1419BP-SB-4 (3.5-4) Grab Soil 04/0	02/2019 10:10 1	026037
1419BP-SB-5 (2-2.5) Grab Soil 04/0	02/2019 10:20 1	026038
1419BP-SB-5 (3.5-4) Grab Soil 04/0	02/2019 10:25 1	026039
1419BP-SB-6 (2.5-3) Grab Soil 04/0	02/2019 10:30 1	026040
1419BP-SB-7 (2-2.5) Grab Soil 04/0	02/2019 10:50 1	026041
1419BP-SB-7 (7.5-8) Grab Soil 04/0	02/2019 10:55 1	026042
1419BP-SB-8 (2-2.5) Grab Soil 04/0	02/2019 11:10 1	026043
1419BP-SB-8 (5.5-6) Grab Soil 04/0	02/2019 11:15 1	026044
1419BP-SB-9 (4-4.5) Grab Soil 04/0	02/2019 11:25 1	026045
1419BP-SB-9 (6.5-7) Grab Soil 04/0	02/2019 11:30 1	026046
1419BP-SB-10 (2.5-3) Grab Soil 04/0	02/2019 11:35 1	026047
1419BP-SB-11 (2.5-3) Grab Soil 04/0	02/2019 11:45 1	026048
1419BP-SB-12 (2-2.5) Grab Soil 04/0	02/2019 12:15 1	026049
1419BP-SB-12 (4.5-5) Grab Soil 04/0	02/2019 12:20 1	026050
1419BP-SB-13 (1-1.5) Grab Soil 04/0	02/2019 12:50 1	026051

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026031

2037206

Sample Description: 1419BP-SB-1 (2-2.5) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time: 04/02/2019 09:15

SDG#: RRP44-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.23	1
14027	Perfluoro-octanesulfonate	1763-23-1	7.2	0.34	1
14027	Perfluorooctanoic acid	335-67-1	0.42 J	0.23	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

 $^{^{1}}$ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 20:20	Jason W Knight	1	
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1	
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005A	04/10/2019 08:51	William C Schwebel	1	

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026032

2037206

Sample Description: 1419BP-SB-1 (5.5-6) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time: 04/02/2019 09:20

SDG#: RRP44-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.21	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.5	0.31	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.21	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ess in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 22:18	Jason W Knight	1	
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1	
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005A	04/10/2019 08:51	William C Schwebel	1	

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026033

2037206

Sample Description: 1419BP-SB-2 (2-2.5) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: Collection Date/Time: 04/02/2019 09:30 SDG#: RRP44-03

04/03/2019 16:35

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS/	MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.21	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.40 J	0.31	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.21	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ess in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 22:27	Jason W Knight	1	
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1	
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005A	04/10/2019 08:51	William C Schwebel	1	

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026034

2037206

Sample Description: 1419BP-SB-2 (3.5-4) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: Collection Date/Time:

04/03/2019 16:35 04/02/2019 09:35 SDG#: RRP44-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.22	1
14027	Perfluoro-octanesulfonate	1763-23-1	2.3	0.32	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.22	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ass in weight of the sample after oven by The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record						
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 22:36	Jason W Knight	1
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005A	04/10/2019 08:51	William C Schwebel	1

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026035

2037206

Sample Description: 1419BP-SB-3 (2.5-3) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: Collection Date/Time:

04/03/2019 16:35 04/02/2019 09:50 SDG#: RRP44-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS/	MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.23	1
14027	Perfluoro-octanesulfonate	1763-23-1	2.4	0.34	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.23	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 22:45	Jason W Knight	1		
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1		
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005A	04/10/2019 08:51	William C Schwebel	1		

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026036

2037206

Sample Description: 1419BP-SB-4 (2-2.5) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time: 04/02/2019 10:05

SDG#: RRP44-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.22	1
14027	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.32	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.22	1
Wet Chemistry SM 2540 G-2011 %Moisture Calc		SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 22:54	Jason W Knight	1		
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1		
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005A	04/10/2019 08:51	William C Schwebel	1		



EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026037

2037206

Sample Description: 1419BP-SB-4 (3.5-4) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: Collection Date/Time:

04/03/2019 16:35 04/02/2019 10:10 SDG#: RRP44-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.22	1
14027	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.33	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.22	1
Wet Chemistry SM 2540 G-2011 %Moisture Calc		SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 23:03	Jason W Knight	1		
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1		
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005A	04/10/2019 08:51	William C Schwebel	1		

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026038

2037206

Sample Description: 1419BP-SB-5 (2-2.5) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time: 04/02/2019 10:20

SDG#: RRP44-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS/	MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.21	1
14027	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.32	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.21	1
		SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven . The moisture result reported is on a		0.50	1

Sample Comments

 $^{^{1}}$ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 23:12	Jason W Knight	1	
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1	
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005A	04/10/2019 08:51	William C Schwebel	1	

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026039

2037206

Sample Description: 1419BP-SB-5 (3.5-4) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: Collection Date/Time:

04/03/2019 16:35 04/02/2019 10:25 SDG#: RRP44-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.23	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.63 J	0.34	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.23	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

 $^{^{1}}$ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 23:30	Jason W Knight	1	
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1	
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005A	04/10/2019 08:51	William C Schwebel	1	

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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REVISED

SW 1026040

2037206

Sample Description: 1419BP-SB-6 (2.5-3) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: Collection Date/Time: SDG#: RRP44-10

04/03/2019 16:35 04/02/2019 10:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.22	1
14027	Perfluoro-octanesulfonate	1763-23-1	5.7	0.33	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.22	1
Wet Chemistry SM 2540 G-2011 %Moisture Calc		SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ess in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 23:39	Jason W Knight	1		
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1		
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005A	04/10/2019 08:51	William C Schwebel	1		

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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REVISED

SW 1026041

2037206

Sample Description: 1419BP-SB-7 (2-2.5) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time: 04/02/2019 10:50

SDG#: RRP44-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS/	MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.23	1
14027	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.35	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.23	1
Wet Chemistry SM 2540 G-2011 %Moisture Calc		SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven . The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 23:48	Jason W Knight	1		
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1		
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005B	04/10/2019 08:51	William C Schwebel	1		

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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REVISED

SW 1026042

2037206

Sample Description: 1419BP-SB-7 (7.5-8) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: Collection Date/Time:

04/03/2019 16:35 04/02/2019 10:55 SDG#: RRP44-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS/	MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.21	1
14027	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.32	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.21	1
- · · · · · · · · · · · · · · · · · · ·		SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven . The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 23:57	Jason W Knight	1		
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1		
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005B	04/10/2019 08:51	William C Schwebel	1		

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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REVISED

SW 1026043

2037206

Sample Description: 1419BP-SB-8 (2-2.5) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time: 04/02/2019 11:10

SDG#: RRP44-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.22	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.1	0.33	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.22	1
- · · · · · · · · · · · · · · · · · · ·		SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven . The moisture result reported is on a		0.50	1

Sample Comments

 $^{^{1}}$ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/10/2019 00:06	Jason W Knight	1		
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1		
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005B	04/10/2019 08:51	William C Schwebel	1		

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026044

2037206

Sample Description: 1419BP-SB-8 (5.5-6) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time:

04/02/2019 11:15 SDG#: RRP44-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.23	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.52 J	0.34	1
14027	Perfluorooctanoic acid	335-67-1	0.27 J	0.23	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ass in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/10/2019 00:15	Jason W Knight	1	
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1	
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005B	04/10/2019 08:51	William C Schwebel	1	

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026045

2037206

Sample Description: 1419BP-SB-9 (4-4.5) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

 Submittal Date/Time:
 04/03/2019 16:35

 Collection Date/Time:
 04/02/2019 11:25

 SDG#:
 RRP44-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.22	1
14027	Perfluoro-octanesulfonate	1763-23-1	2.0	0.34	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.22	1
Wet Chemistry SM 2540 G-2011 %Moisture Calc		SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ass in weight of the sample after oven by The moisture result reported is on a		0.50	1

Sample Comments

 $^{^{1}}$ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/10/2019 00:24	Jason W Knight	1	
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1	
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005B	04/10/2019 08:51	William C Schwebel	1	

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026046

2037206

Sample Description: 1419BP-SB-9 (6.5-7) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time: 04/02/2019 11:30

SDG#: RRP44-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.21	1
14027	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.32	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.21	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/10/2019 00:34	Jason W Knight	1		
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1		
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005B	04/10/2019 08:51	William C Schwebel	1		



EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026047

2037206

Sample Description: 1419BP-SB-10 (2.5-3) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time: 04/02/2019 11:35

SDG#: RRP44-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	0.48 J	0.22	1
14027	Perfluoro-octanesulfonate	1763-23-1	8.0	0.33	1
14027	Perfluorooctanoic acid	335-67-1	2.1	0.22	1
		SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

 $^{^{1}}$ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/10/2019 00:43	Jason W Knight	1				
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1				
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005B	04/10/2019 08:51	William C Schwebel	1				

EnviroTrac LTD

ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026048

2037206

Sample Description: 1419BP-SB-11 (2.5-3) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: Collection Date/Time:

04/03/2019 16:35 04/02/2019 11:45 SDG#: RRP44-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.22	1
14027	Perfluoro-octanesulfonate	1763-23-1	50	0.33	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.22	1
- · · · · · · · · · · · · · · · · · · ·		SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

 $^{^{1}}$ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/10/2019 00:52	Jason W Knight	1				
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1				
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005B	04/10/2019 08:51	William C Schwebel	1				

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026049

2037206

Sample Description: 1419BP-SB-12 (2-2.5) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time: 04/02/2019 12:15

SDG#: RRP44-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.21	1
14027	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.32	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.21	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

 $^{^{1}}$ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/10/2019 01:10	Jason W Knight	1				
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1				
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005B	04/10/2019 08:51	William C Schwebel	1				

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026050

2037206

Sample Description: 1419BP-SB-12 (4.5-5) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time:

04/02/2019 12:20 SDG#: RRP44-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.23	1
14027	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.34	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.23	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ss in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19099016	04/10/2019 01:19	Jason W Knight	1			
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19099016	04/09/2019 09:30	Courtney J Fatta	1			
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820005B	04/10/2019 08:51	William C Schwebel	1			

EnviroTrac LTD ELLE Sample #:

ELLE Group #:

Matrix: Soil

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SW 1026051

2037206

Sample Description: 1419BP-SB-13 (1-1.5) Grab Soil

GTAC Ridge Run

Project Name: GTAC Ridge Run

Submittal Date/Time: 04/03/2019 16:35 Collection Date/Time: 04/02/2019 12:50 SDG#: RRP44-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
LC/MS	/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	N.D.	0.20	1
14027	Perfluoro-octanesulfonate	1763-23-1	5.0	0.30	1
14027	Perfluorooctanoic acid	335-67-1	N.D.	0.20	1
Wet Ch	nemistry	SM 2540 G-2011 %Moisture Calc	%	%	
00111		n.a. ass in weight of the sample after oven s. The moisture result reported is on a		0.50	1

Sample Comments

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
14027	PFAS in Soil by LC/MS/MS	EPA 537 Version 1.1 Modified	1	19100004	04/14/2019 19:24	Jason W Knight	1				
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19100004	04/10/2019 10:10	Courtney J Fatta	1				
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19099820003B	04/10/2019 09:15	William C Schwebel	1				

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Quality Control Summary

Client Name: EnviroTrac LTD Group Number: 2037206 Reported: 04/17/2019 17:17

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL
	ng/g	ng/g
Batch number: 19099016	Sample numb	er(s): 1026031-1026050
Perfluorobutanesulfonate	N.D.	0.20
Perfluoro-octanesulfonate	N.D.	0.30
Perfluorooctanoic acid	N.D.	0.20
Batch number: 19100004	Sample numb	er(s): 1026051
Perfluorobutanesulfonate	N.D.	0.20
Perfluoro-octanesulfonate	N.D.	0.30
Perfluorooctanoic acid	N.D.	0.20

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 19099016	Sample number(s): 1026031-1	1026050						
Perfluorobutanesulfonate	1.20	1.13	1.20	1.03	94	85	71-133	9	30
Perfluoro-octanesulfonate	1.30	1.07	1.30	1.07	82	82	69-137	0	30
Perfluorooctanoic acid	1.36	1.35	1.36	1.31	100	96	74-146	3	30
Batch number: 19100004	Sample number(s): 1026051							
Perfluorobutanesulfonate	1.20	1.16	1.20	1.19	96	99	71-133	3	30
Perfluoro-octanesulfonate	1.30	1.18	1.30	1.15	91	89	69-137	2	30
Perfluorooctanoic acid	1.36	1.37	1.36	1.26	101	93	74-146	9	30
	%	%	%	%					
Batch number: 19099820003B	Sample number(s): 1026051							
Moisture	89.5	89.47			100		99-101		
Batch number: 19099820005A	Sample number(s): 1026031-1	1026040						
Moisture	89.5	89.47			100		99-101		
Batch number: 19099820005B	Sample number(s): 1026041-1	1026050						
Moisture	89.5	89.47			100		99-101		

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: EnviroTrac LTD Group Number: 2037206

Reported: 04/17/2019 17:17

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 19099016	Sample number	er(s): 1026031-	1026050 L	JNSPK: 1026031						
Perfluorobutanesulfonate	N.D.	1.15	1.28	1.15	1.19	111	104	61-142	7	30
Perfluoro-octanesulfonate	6.06	1.24	7.52	1.24	7.95	118 (2)	153 (2)	52-160	6	30
Perfluorooctanoic acid	0.354	1.30	1.58	1.30	1.67	94	101	35-182	6	30

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	%	%		
Batch number: 19099820005A	Sample number(s): 1026	6031-1026040 BKG: 10	26035	
Moisture	15.03	14.61	3	5
Batch number: 19099820005B	Sample number(s): 1026	6041-1026050 BKG: 10	26045	
Moisture	15.83	15.74	1	5

Labeled Isotope Quality Control

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: PFAS in Soil by LC/MS/MS

Batch number: 19099016

	13C3-PFBS	13C8-PFOA	13C8-PFOS	
1026031	87	84	88	
1026032	88	86	92	
1026033	82	82	86	
1026034	79	82	86	
1026035	78	80	81	
1026036	77	79	76	
1026037	84	86	80	
1026038	80	80	80	
1026039	78	74	79	
1026040	75	73	76	
1026041	74	67	77	
1026042	68	72	64	
1026043	74	72	73	

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

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REVISED

Quality Control Summary

Client Name: EnviroTrac LTD Group Number: 2037206

Reported: 04/17/2019 17:17

Labeled Isotope Quality Control

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: PFAS in Soil by LC/MS/MS

Batch number: 19099016

	13C3-PFBS	13C8-PFOA	13C8-PFOS	
1026044	80	73	75	
1026045	78	79	83	
1026046	79	75	77	
1026047	78	77	80	
1026048	87	84	89	
1026049	84	77	89	
1026050	75	74	77	
Blank	74	73	75	
LCS	72	75	77	
LCSD	83	80	84	
MS	75	77	78	
MSD	85	83	83	
Limits:	22-130	28-119	39-119	

Analysis Name: PFAS in Soil by LC/MS/MS

Batch number: 19100004

	13C3-PFBS	13C8-PFOA	13C8-PFOS	
1026051	78	77	78	
Blank	78	81	80	
LCS	73	77	82	
LCSD	73	82	82	
Limits:	22-130	28-119	39-119	

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Project Name/#:	<u> </u>	PWSID #:				ne le		'					-			_			SCR#:		
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Environmental Analysis Request/Chain of Custody

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Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories
Environmental

	For Eurofins Lancast	e <u>r</u> Laboratories Envir	onmental use only
Acct. # 12370	Group # <u>203</u>	7200 Sample #	1026031-51

COC #580119

Client Information	n	Client Information							/		Analysis Requested Preservation and Filtration Codes							For Lab	Use Only	
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State where samples were collected: For Compliance: Yes	No □			site	Sedi	Potable NPDES		Total # of Containers	195											
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Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID:

245377

Group Number(s):

Client: Envirotrac

Delivery and Receipt Information

Delivery Method:

ELLE Courier

Arrival Timestamp:

04/03/2019 16:35

Number of Packages:

1

Number of Projects:

2

State/Province of Origin:

<u>PA</u>

Arrival Condition Summary

Shipping Container Sealed:

Discrepancy in Container Qty on COC:

No

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

No

Sample Date/Times match COC:

Yes

Samples Chilled:

Yes

VOA Vial Headspace ≥ 6mm:

N/A

Paperwork Enclosed:

Yes

Total Trip Blank Qty:

0

Samples Intact:

Yes

Air Quality Samples Present:

No

Missing Samples:

No

Extra Samples:

No No

Unpacked by Cory Jeremiah (10469) at 17:20 on 04/03/2019

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Cooler # Thermometer ID 1

DT42-01

Corrected Temp

Therm. Type

Ice Type

Ice Present?

Ice Container

Elevated Temp?

1.6

DT

Wet

Υ

Bagged

Ν



BMQL

ppb

basis

Dry weight

parts per billion

as-received basis.

Explanation of Symbols and Abbreviations

milliliter(s)

The following defines common symbols and abbreviations used in reporting technical data:

Below Minimum Quantitation Level

С	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	μg	microgram(s)
lb.	pound(s)	μL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	aqueous liquids, ppm is usually taken	to be equivalent to milli	kilogram (mg/kg) or one gram per million grams. For grams per liter (mg/l), because one liter of water has a weight uivalent to one microliter per liter of gas.

mL

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Data Qualifiers

Qualifier	Definition
С	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
Р	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised
	due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report
В	Detection in the Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q2	MS/MSD Low
Q3	MS/MSD High
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.